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(43) International Publication Date 15 July 2004 (15.07.2004)

PCT

(10) International Publication Number WO 2004/059839 A1

(51) International Patent Classification⁷: G11C 19/28

H03K 5/13,

(21) International Application Number:

PCT/IB2003/006215

(22) International Filing Date:

22 December 2003 (22.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2002-382481

27 December 2002 (27.12.2002) JP

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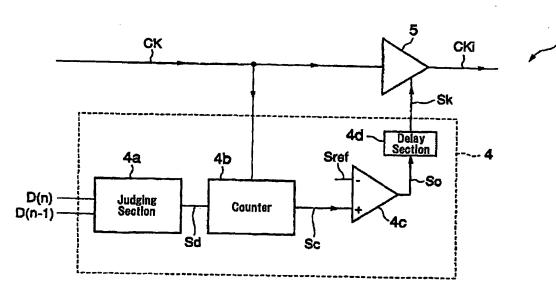
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: CIRCUIT ARRANGEMENT



(57) Abstract: An object of the present invention is to provide a circuit device in which the power consumption can be reduced without the dedicated signal. A circuit device (1) comprising a D flip-flop (F0) for receiving a pulse of a clock signal (CK) to introduce data thereinto and output said introduced data and a shift register (2), comprising the D flip-flops (F1 to F7) for introducing the data thereinto in accordance with the pulse to output the introduced data, for processing the outputted data from the D flip-flop (F0), wherein the circuit device (1) comprises a control circuit (3) for controlling whether the D flip-flops (F1 to F7) are supplied with the pulse of the clock signal (CK) on the basis of outputted data from the D flip-flop (F0) in accordance with the pulse of the clock signal (CK) and data to be introduced into the D flip-flop (F0) in accordance with the next pulse.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

IB 03/06215

. CLASSIFICATION OF SUBJECT MATTER PC 7 H03K5/13 G110 IPC 7 G11C19/28 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 HO3K G11C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X EP 0 703 663 A (SGS THOMSON 1,4,6,9 MICROELECTRONICS) 27 March 1996 (1996-03-27) figure 4 X EP 0 524 712 A (SHARP KK) 1,6,9 27 January 1993 (1993-01-27) figure 4 X US 5 883 529 A (KUMATA ICHIRO ET AL) 1 - 316 March 1999 (1999-03-16) figure 31 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "O" document referring to an oral disclosure, use, exhibition or *P* document published prior to the international filling date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 26 April 2004 04/05/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31~70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Brown, J

INTERNAMENAL SEARCH REPORT

R	03/06215
D	03/00215

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0703663	Α	27-03-1996	EP DE DE US	0703663 A1 69407588 D1 69407588 T2 5670904 A	27-03-1996 05-02-1998 09-07-1998 23-09-1997
EP 0524712	A 	27-01-1993	JP EP US	5028789 A 0524712 A2 5289518 A	05-02-1993 27-01-1993 22-02-1994
US 5883529	Α	16-03-1999	JP	9284101 A	31-10-1997